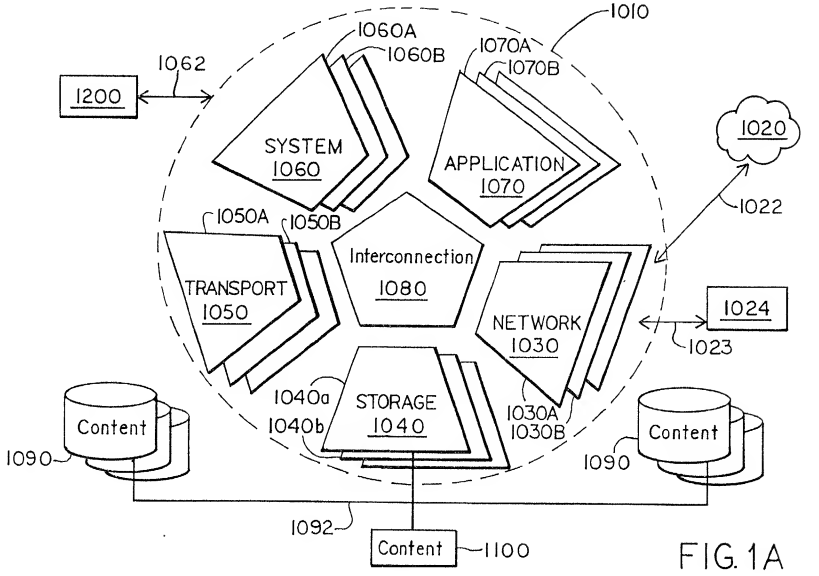
1010
1060A
1060B
1062
1070A
1070B
1200
SYSTEM
1060
APPLICATION
1070
1020
1022
1050A
1050B
Interconnection
1080
TRANSPORT
1050
NETWORK
1030
1024
1023
1040a
1040b
STORAGE
1040
1030A
1030B
Content
1090
Content
1090
1092
Content
1100

FIG. 1A

TOSHIBA EXHIBIT

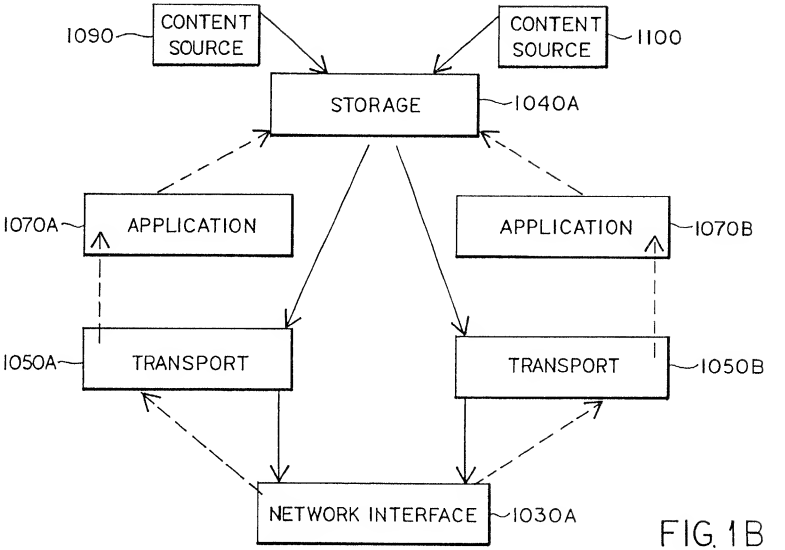

FIG. 1B

FIG.1C | FIG. 1C' | FIG. 1C''

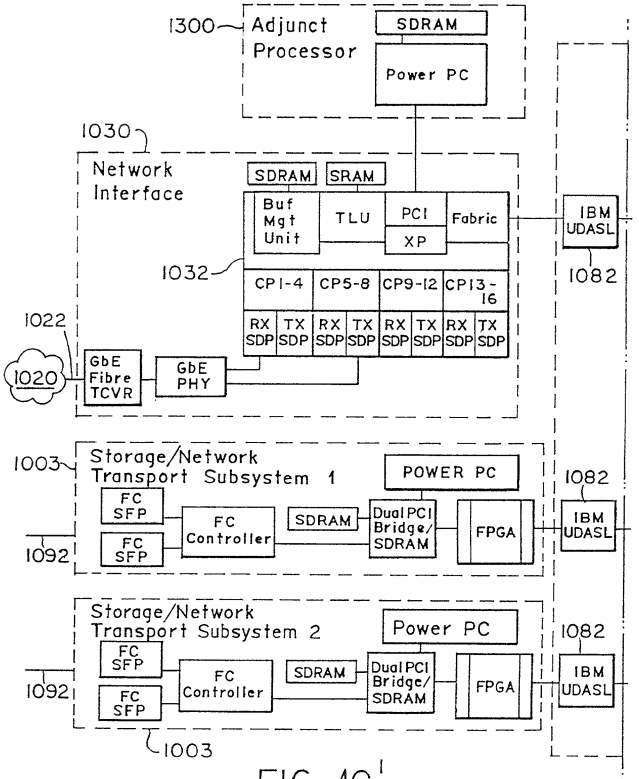

FIG. 1C'

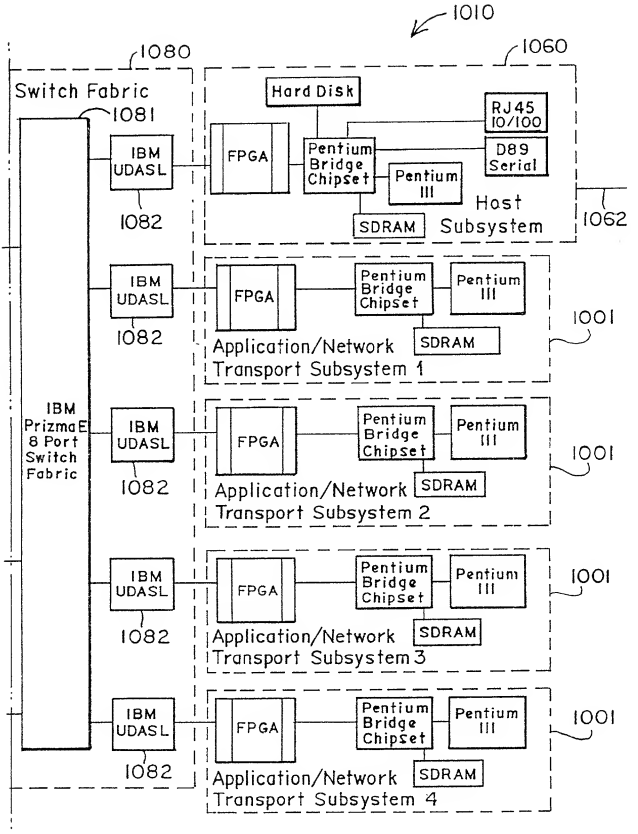
1010
1080
Switch Fabric
1081
1060
Hard Disk
RJ45
10/100
FPGA
Pentium
Bridge
Chipset
D89
Serial
Pentium
III
IBM
UDASL
1082
SDRAM
Host
Subsystem
1062
IBM
PrizmaE
8 Port
Switch
Fabric
Application/Network
Transport Subsystem 1
1001
Application/Network
Transport Subsystem 2
Application/Network
Transport Subsystem 3
Application/Network
Transport Subsystem 4

FIG. 1C[11]

FIG.1D | FIG.1D' | FIG.1D''

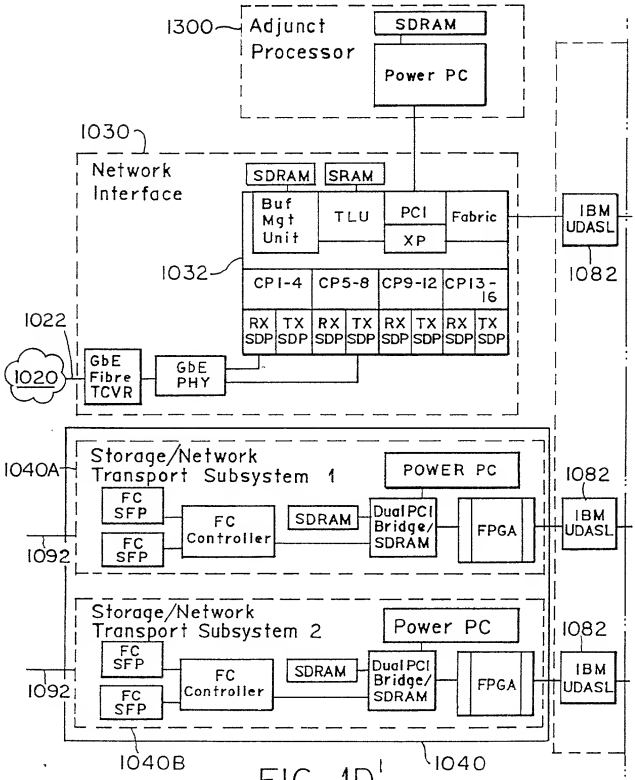

FIG. 1D'

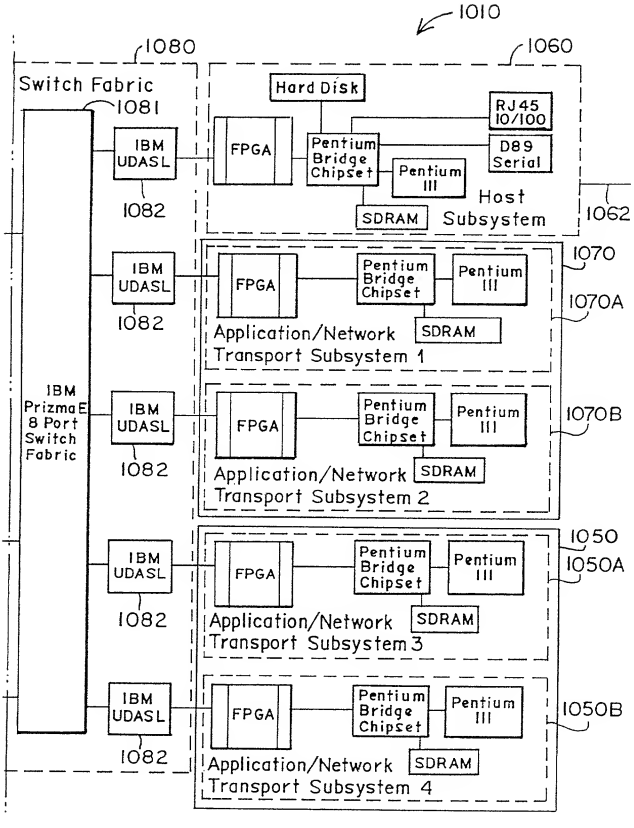
1010
1080
1060
Switch Fabric
1081
Hard Disk
RJ45 10/100
FPGA
Pentium Bridge Chipset
D89 Serial
Pentium III
IBM UDASL
1082
SDRAM
Host Subsystem
1062
1070
1070A
Application/Network Transport Subsystem 1
IBM PrizmaE 8 Port Switch Fabric
1070B
Application/Network Transport Subsystem 2
1050
1050A
Application/Network Transport Subsystem 3
1050B
Application/Network Transport Subsystem 4

FIG. 1D"

FIG.1E | FIG. 1E' | FIG. 1E''

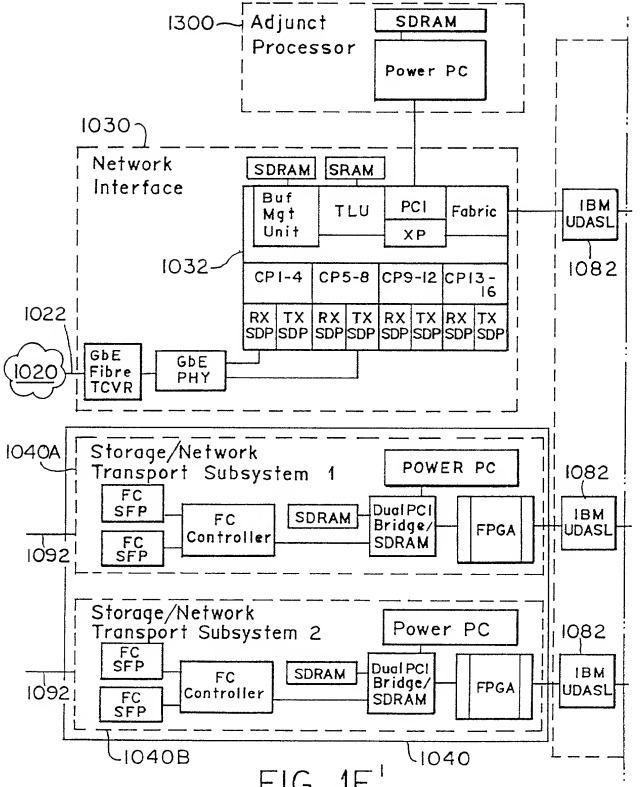

FIG. 1E'

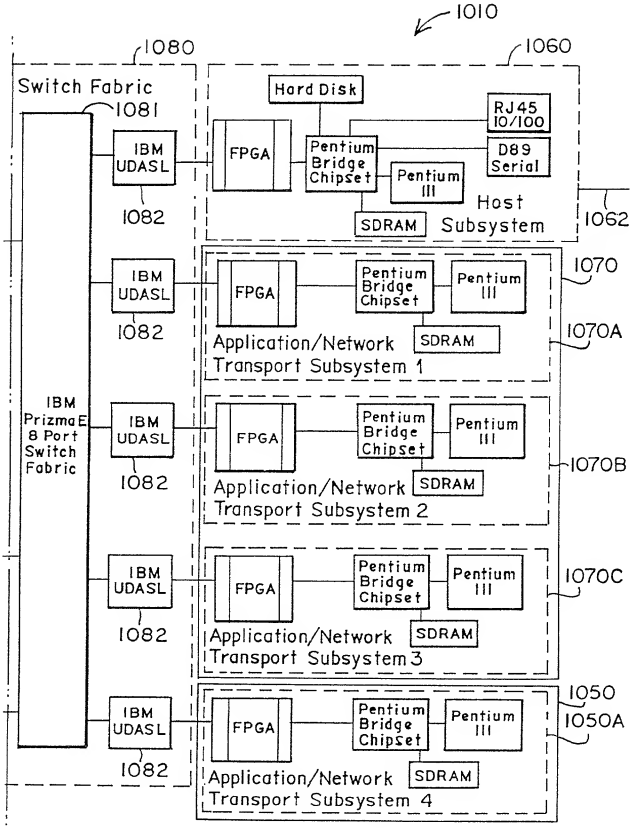
1010
1080
1060
Switch Fabric
1081
Hard Disk
RJ45 10/100
FPGA
Pentium Bridge Chipset
D89 Serial
Pentium III
IBM UDASL
1082
SDRAM
Host Subsystem
1062
1070
1070A
Application/Network Transport Subsystem 1
1070B
Application/Network Transport Subsystem 2
1070C
Application/Network Transport Subsystem 3
1050
1050A
Application/Network Transport Subsystem 4
IBM PrizmaE 8 Port Switch Fabric

FIG. 1E[11]

FIG.1F | FIG.1F' | FIG.1F''

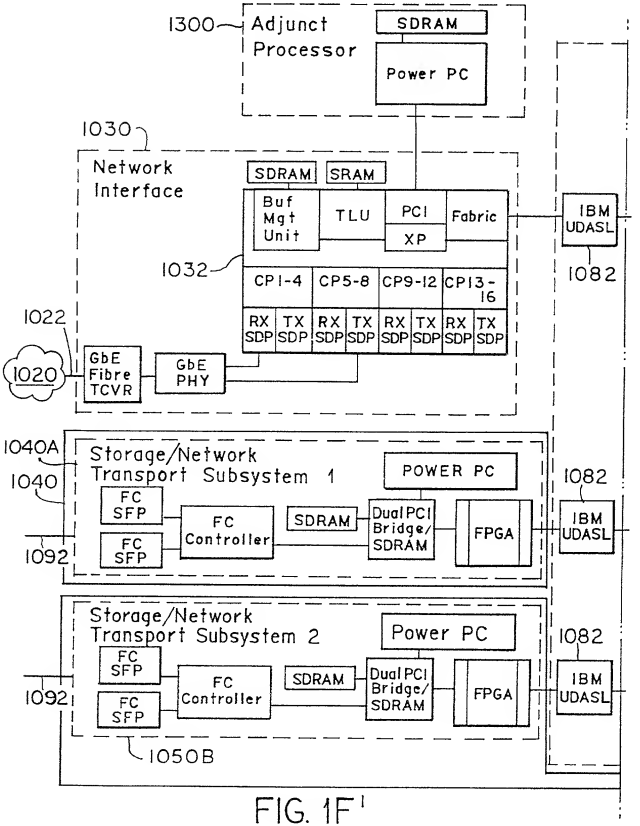

FIG. 1F'

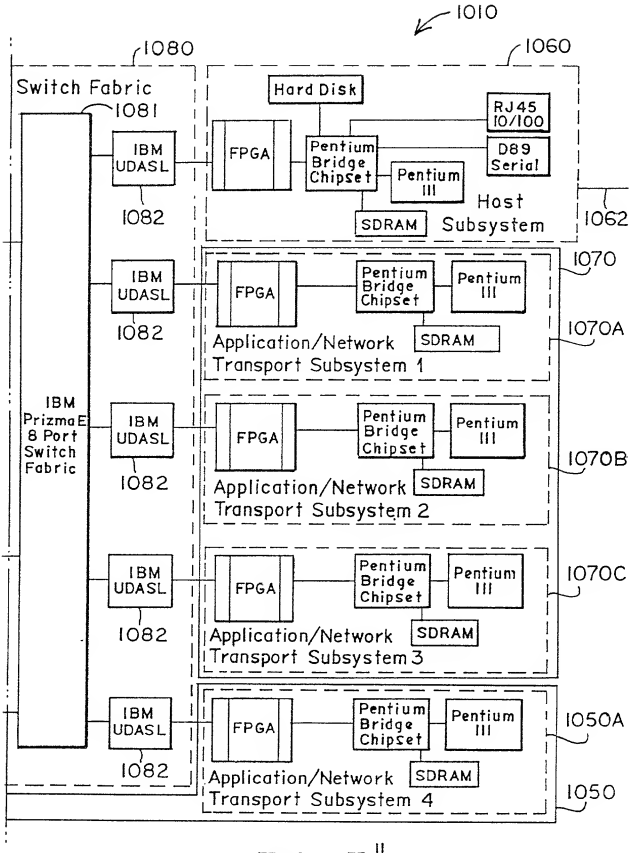
1010
1080
1060
Switch Fabric
1081
Hard Disk
RJ45 10/100
D89 Serial
FPGA
Pentium Bridge Chipset
Pentium III
IBM UDASL
1082
SDRAM
Host Subsystem
1062
1070
1070A
Application/Network Transport Subsystem 1
1070B
Application/Network Transport Subsystem 2
1070C
Application/Network Transport Subsystem 3
1050A
Application/Network Transport Subsystem 4
1050
IBM PrizmaE 8 Port Switch Fabric

FIG. 1F [11]

TOSOTT'ESSEOOOT

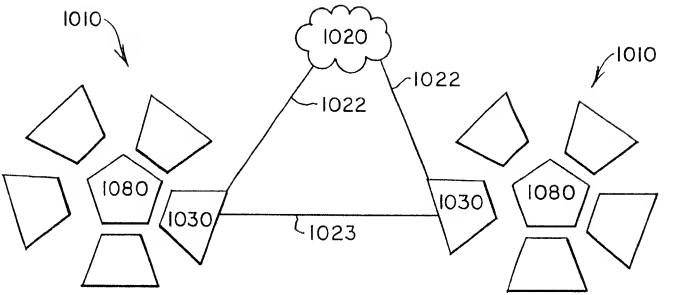

FIG. 1G

Tabatt's Sabadot

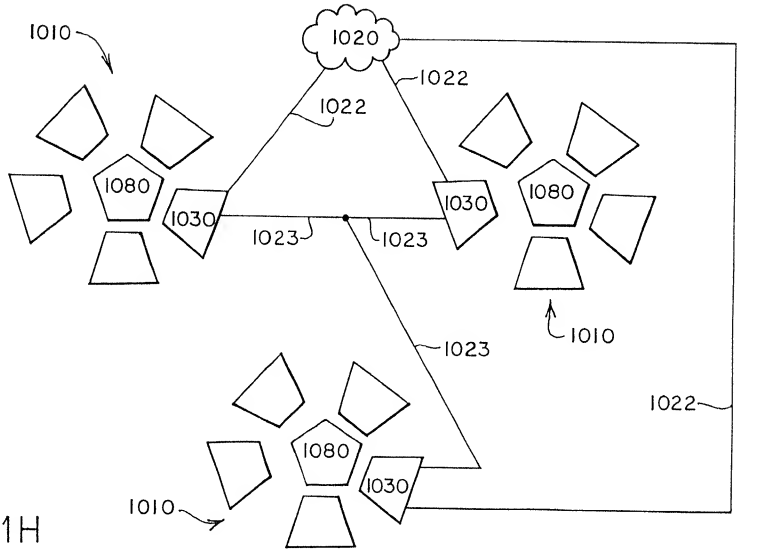

FIG. 1H

TOSOTT'ESSEUOST

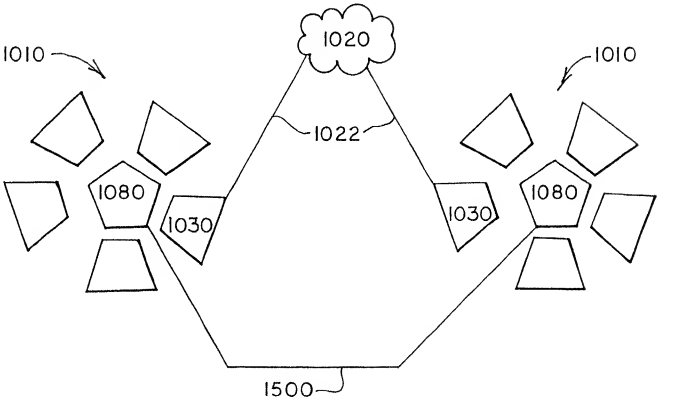

FIG. 1I

TOBATT:ESSCOOT

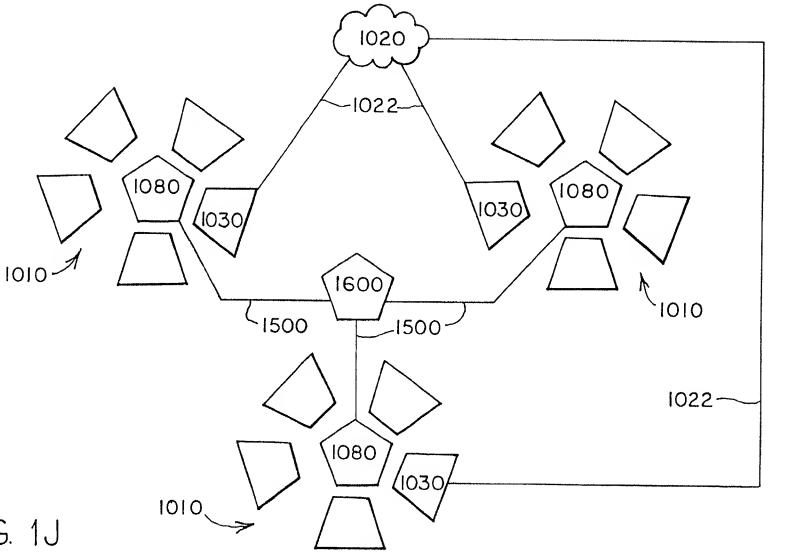

FIG. 1J

TOSOTT:E88E0881

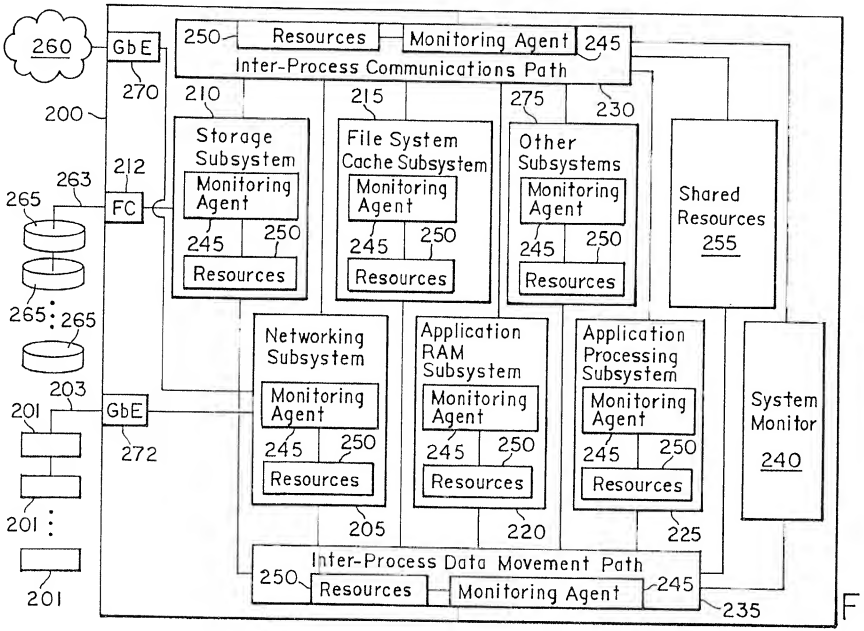

FIG.2

TOSHIBA CORPORATION

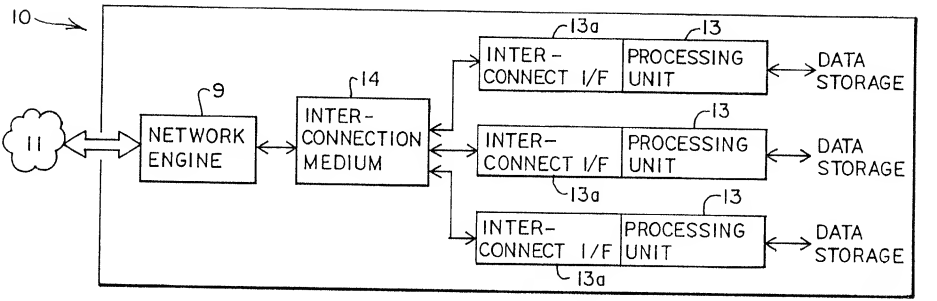

FIG. 2A

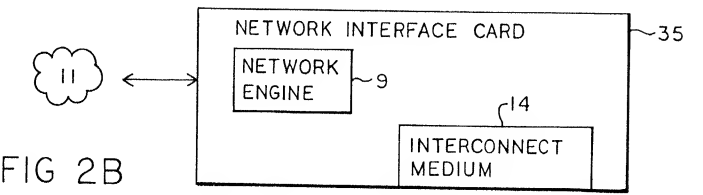

FIG 2B

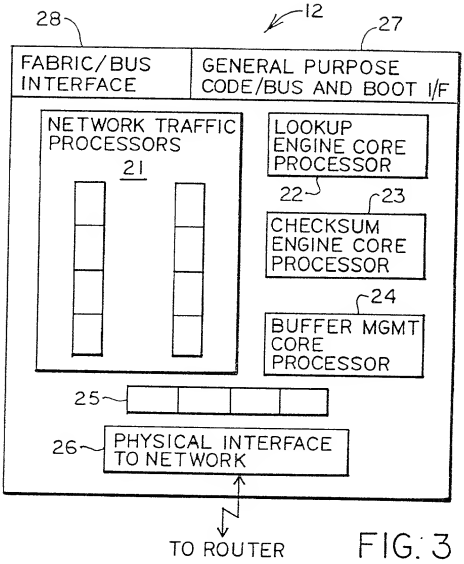
28
12
27
FABRIC/BUS INTERFACE
GENERAL PURPOSE CODE/BUS AND BOOT I/F
NETWORK TRAFFIC PROCESSORS
21
LOOKUP ENGINE CORE PROCESSOR
22
23
CHECKSUM ENGINE CORE PROCESSOR
24
BUFFER MGMT CORE PROCESSOR
25
26
PHYSICAL INTERFACE TO NETWORK
TO ROUTER

FIG. 3

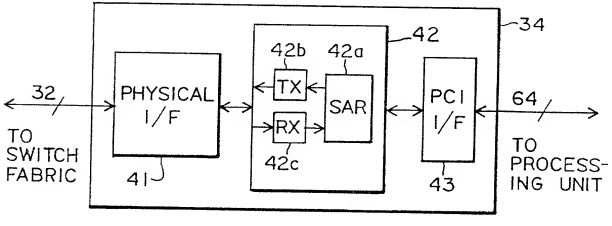
34
42
42b
42a
32
PHYSICAL I/F
TX
SAR
PCI I/F
64
RX
TO SWITCH FABRIC
42c
41
43
TO PROCESS-ING UNIT

FIG. 4

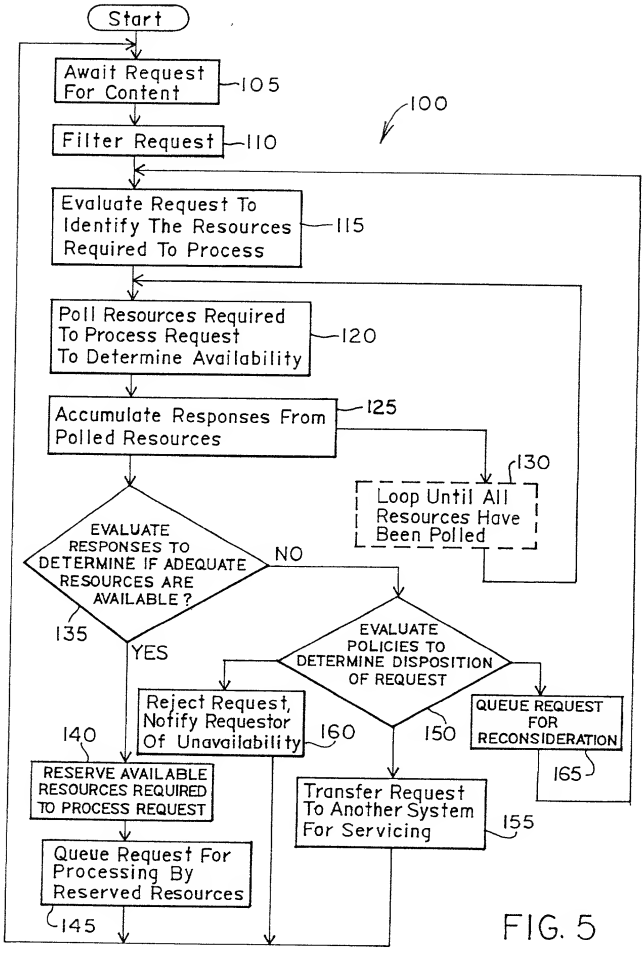
Start
Await Request For Content
105
100
Filter Request
110
Evaluate Request To Identify The Resources Required To Process
115
Poll Resources Required To Process Request To Determine Availability
120
Accumulate Responses From Polled Resources
125
130
Loop Until All Resources Have Been Polled
EVALUATE RESPONSES TO DETERMINE IF ADEQUATE RESOURCES ARE AVAILABLE ?
NO
135
YES
EVALUATE POLICIES TO DETERMINE DISPOSITION OF REQUEST
150
Reject Request, Notify Requestor Of Unavailability
160
QUEUE REQUEST FOR RECONSIDERATION
165
140
RESERVE AVAILABLE RESOURCES REQUIRED TO PROCESS REQUEST
Transfer Request To Another System For Servicing
155
Queue Request For Processing By Reserved Resources
145

FIG. 5

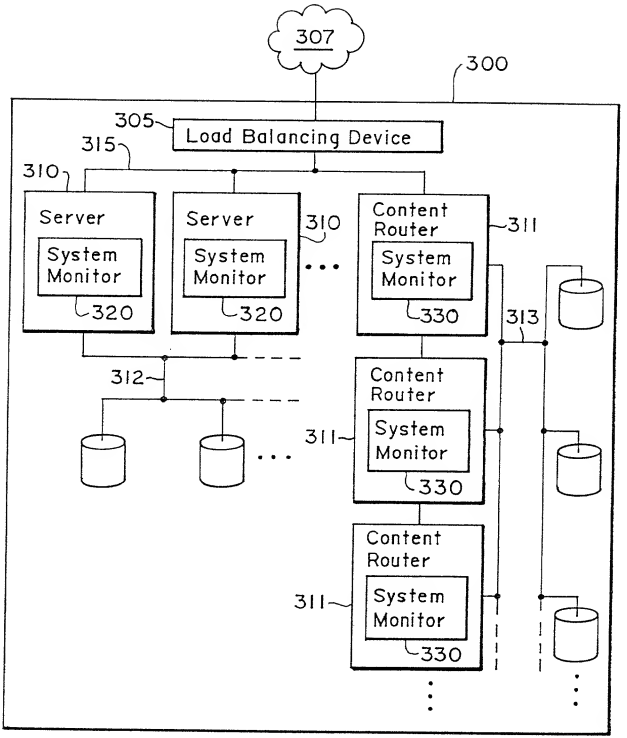
307
300
305
Load Balancing Device
315
310
Server
System Monitor
320
Server
System Monitor
320
310
Content Router
System Monitor
330
311
313
312
Content Router
System Monitor
330
311
Content Router
System Monitor
330
311

FIG. 6

ROBOTT-C0S6S0OT

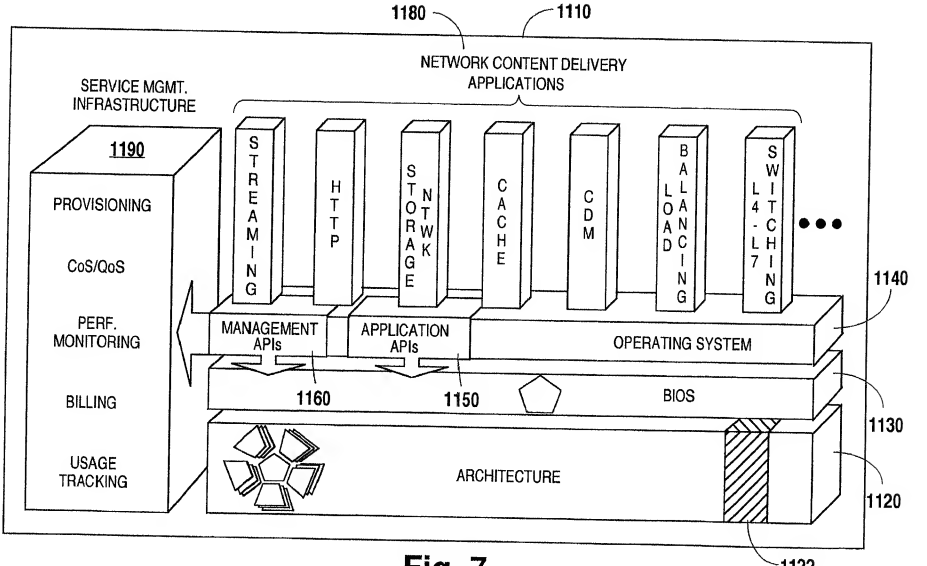

Fig. 7

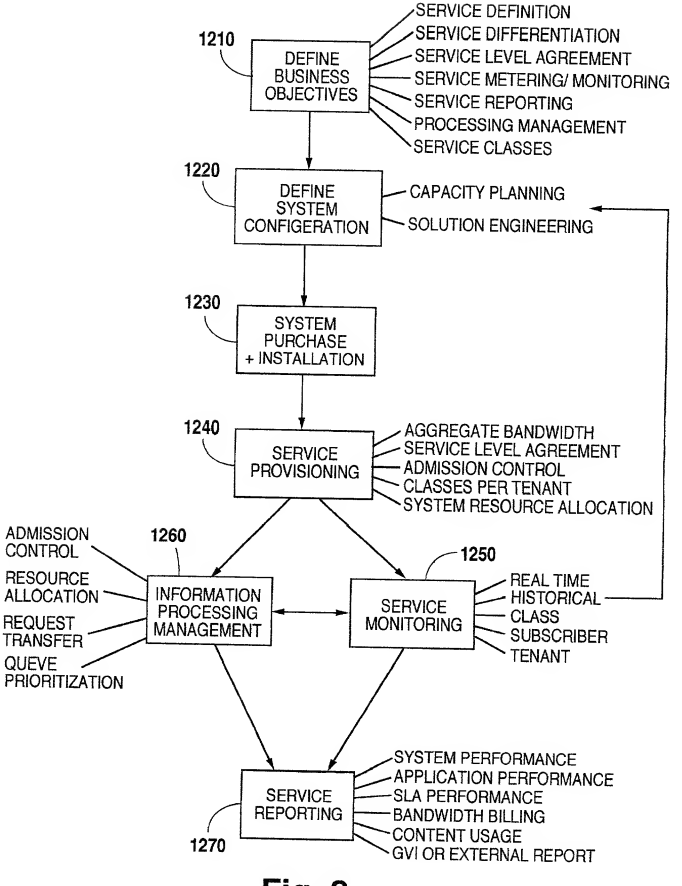
1210
DEFINE BUSINESS OBJECTIVES
SERVICE DEFINITION
SERVICE DIFFERENTIATION
SERVICE LEVEL AGREEMENT
SERVICE METERING/ MONITORING
SERVICE REPORTING
PROCESSING MANAGEMENT
SERVICE CLASSES
1220
DEFINE SYSTEM CONFIGERATION
CAPACITY PLANNING
SOLUTION ENGINEERING
1230
SYSTEM PURCHASE + INSTALLATION
1240
SERVICE PROVISIONING
AGGREGATE BANDWIDTH
SERVICE LEVEL AGREEMENT
ADMISSION CONTROL
CLASSES PER TENANT
SYSTEM RESOURCE ALLOCATION
ADMISSION CONTROL
RESOURCE ALLOCATION
REQUEST TRANSFER
QUEVE PRIORITIZATION
1260
INFORMATION PROCESSING MANAGEMENT
1250
SERVICE MONITORING
REAL TIME
HISTORICAL
CLASS
SUBSCRIBER
TENANT
SERVICE REPORTING
1270
SYSTEM PERFORMANCE
APPLICATION PERFORMANCE
SLA PERFORMANCE
BANDWIDTH BILLING
CONTENT USAGE
GVI OR EXTERNAL REPORT

Fig. 8

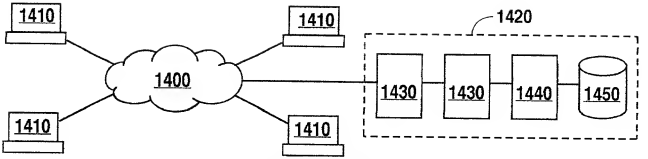

Fig. 9A

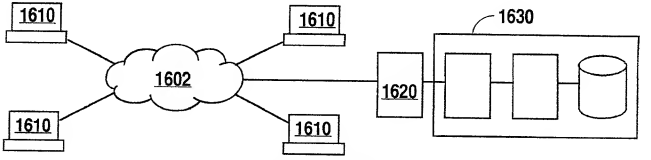

Fig. 9B

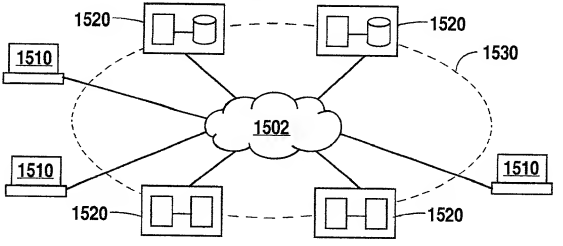

Fig. 9C

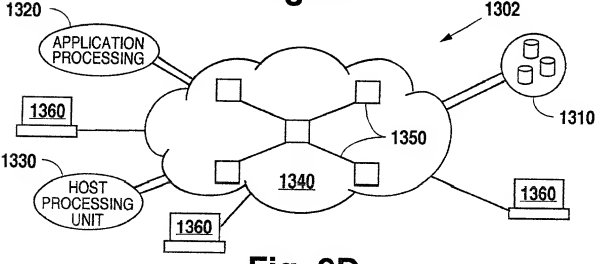

Fig. 9D

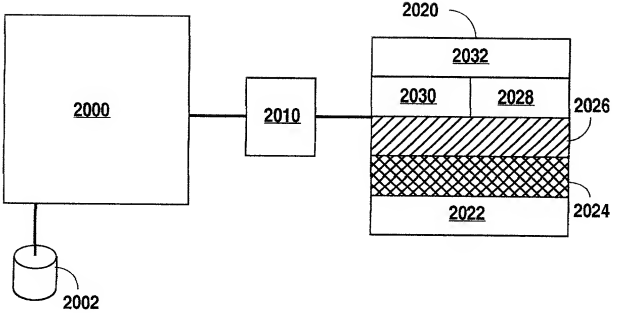
2020
2032
2000
2010
2030
2028
2026
2024
2022
2002

Fig. 10

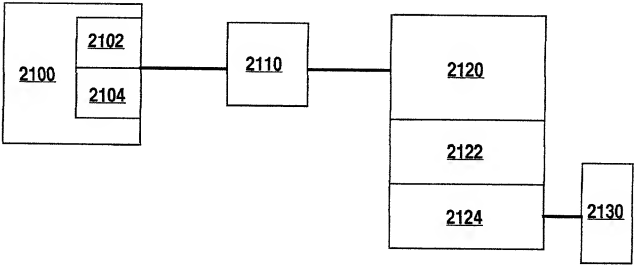
2102
2100
2104
2110
2120
2122
2124
2130

Fig. 11

TARGET: EBS0001

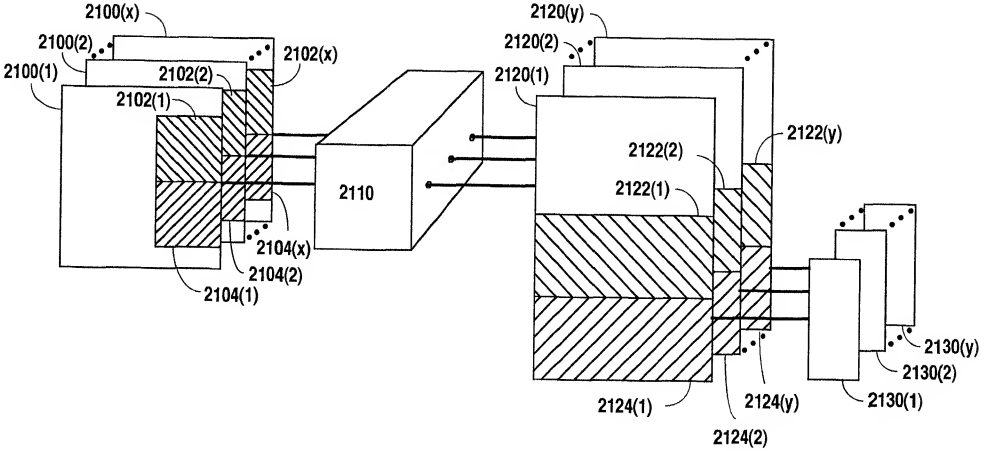

Fig. 12

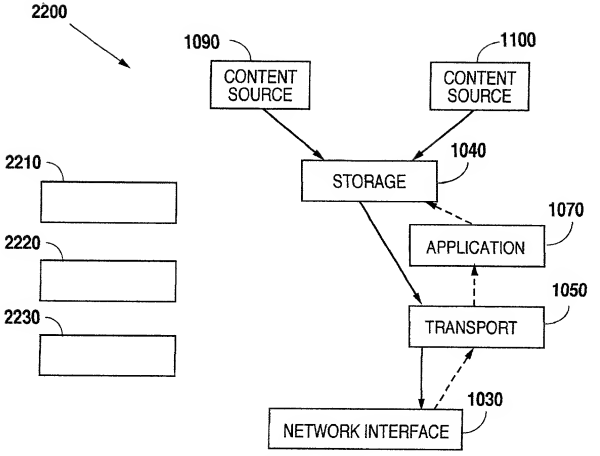
2200
1090
CONTENT SOURCE
1100
CONTENT SOURCE
2210
1040
STORAGE
2220
1070
APPLICATION
2230
1050
TRANSPORT
1030
NETWORK INTERFACE

Fig. 13

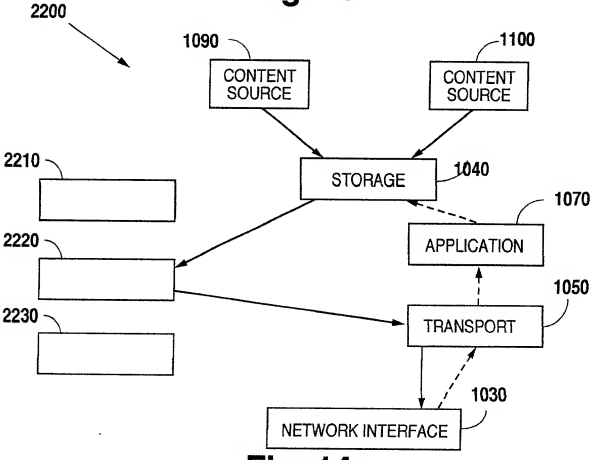
2200
1090
CONTENT SOURCE
1100
CONTENT SOURCE
2210
1040
STORAGE
1070
APPLICATION
2220
1050
TRANSPORT
2230
1030
NETWORK INTERFACE

Fig. 14

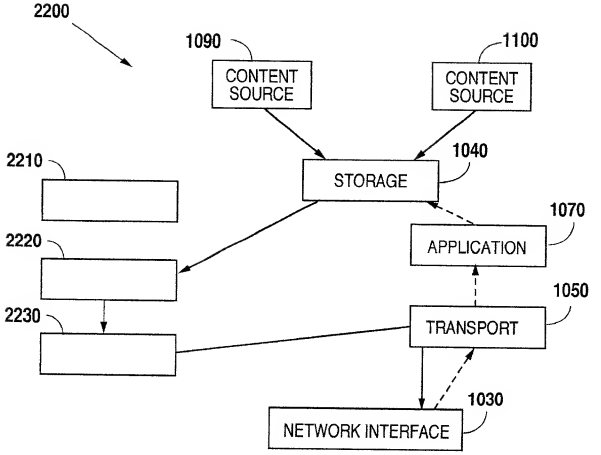
2200
1090
CONTENT SOURCE
1100
CONTENT SOURCE
2210
STORAGE
1040
2220
APPLICATION
1070
2230
TRANSPORT
1050
NETWORK INTERFACE
1030

Fig. 15

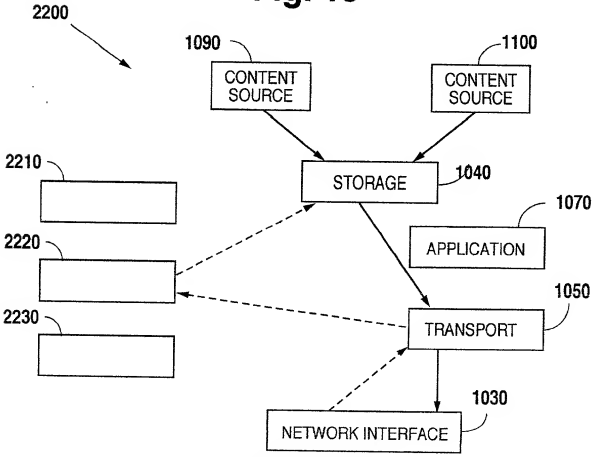
2200
1090
CONTENT SOURCE
1100
CONTENT SOURCE
2210
STORAGE
1040
2220
APPLICATION
1070
2230
TRANSPORT
1050
NETWORK INTERFACE
1030

Fig. 16